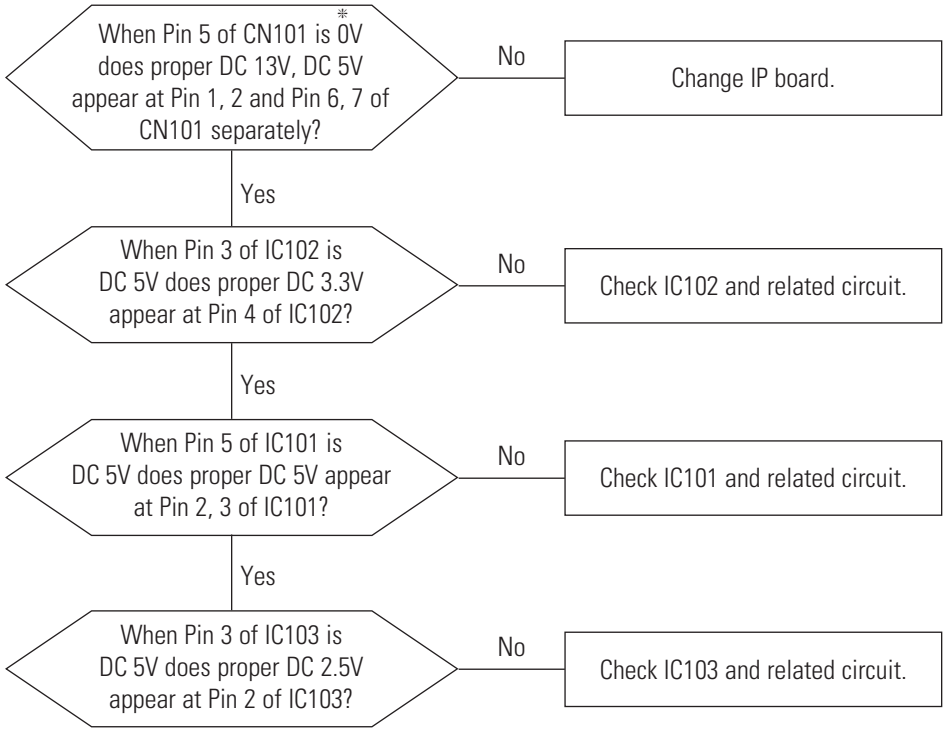
5 Troubleshooting

Notes: 1. Before troubleshooting, setup the PC's display as below.
- Resolution: 1280 x 1024
- H-frequency: 64 kHz
- V-frequency: 60 Hz

2. If no picture appears, make sure the power cord is correctly connected.
3. Check the following circuits.
- No raster appears: SMPS PCB, Main PCB
- 12V develop but no screen: Main PCB
- 12V does not develop: SMPS PCB

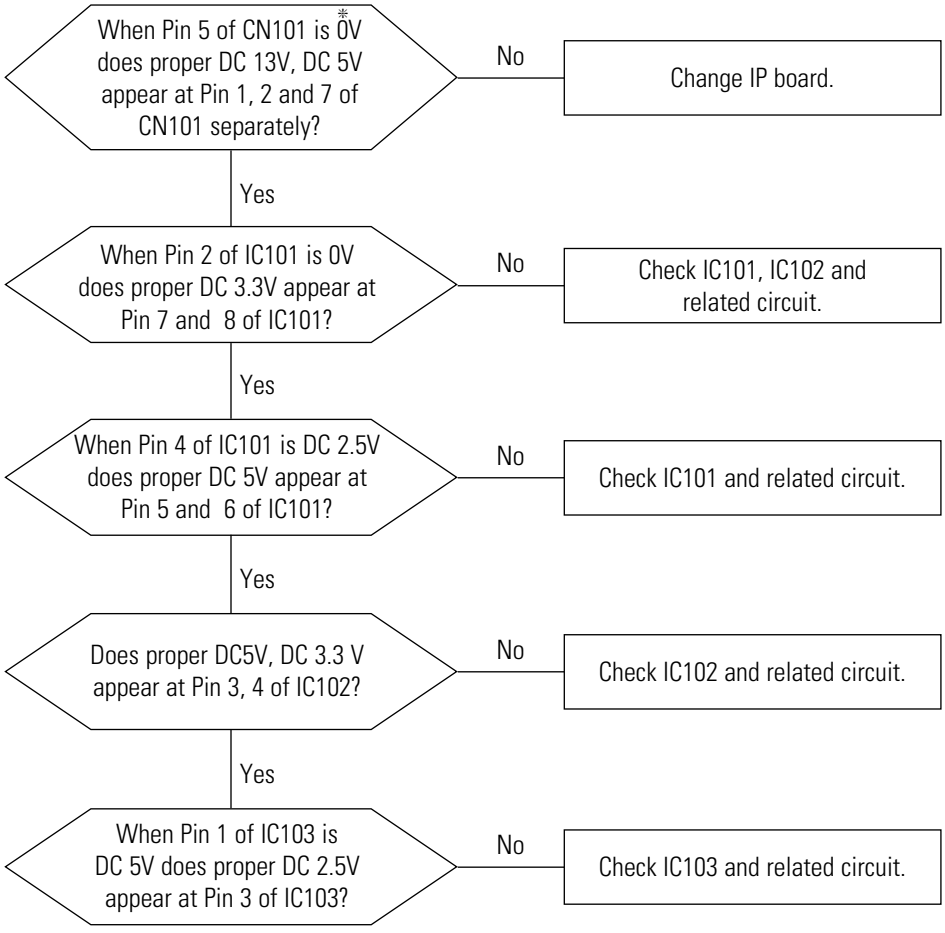
4. If you push and hold the "EXIT" button for more than 5 seconds, the monitor automatically returns to the factory preset.

5-1 No Power (GY17CS*)


When Pin 5 of CN101 is 0V* does proper DC 13V, DC 5V appear at Pin 1, 2 and Pin 6, 7 of CN101 separately?
No
Change IP board.
Yes
When Pin 3 of IC102 is DC 5V does proper DC 3.3V appear at Pin 4 of IC102?
No
Check IC102 and related circuit.
Yes
When Pin 5 of IC101 is DC 5V does proper DC 5V appear at Pin 2, 3 of IC101?
No
Check IC101 and related circuit.
Yes
When Pin 3 of IC103 is DC 5V does proper DC 2.5V appear at Pin 2 of IC103?
No
Check IC103 and related circuit.

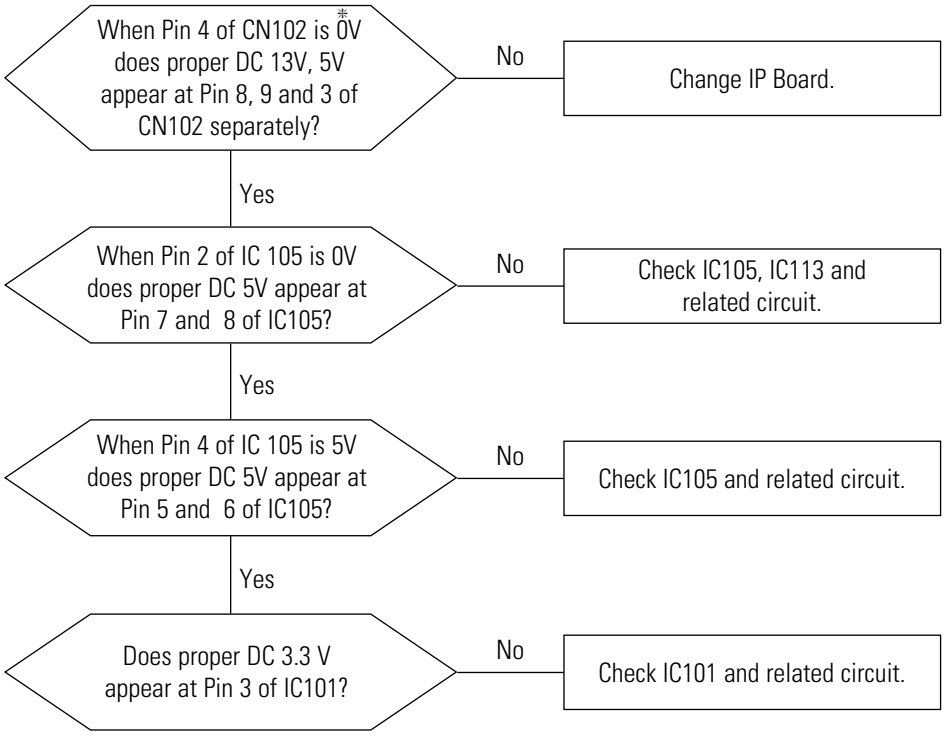
* 0V means power on state.

5-2-1 No Power (GY17VS* - Main 2)


When Pin 5 of CN101 is ※0V does proper DC 13V, DC 5V appear at Pin 1, 2 and 7 of CN101 separately?
No
Change IP board.
Yes
When Pin 2 of IC101 is 0V does proper DC 3.3V appear at Pin 7 and 8 of IC101?
No
Check IC101, IC102 and related circuit.
Yes
When Pin 4 of IC101 is DC 2.5V does proper DC 5V appear at Pin 5 and 6 of IC101?
No
Check IC101 and related circuit.
Yes
Does proper DC5V, DC 3.3 V appear at Pin 3, 4 of IC102?
No
Check IC102 and related circuit.
Yes
When Pin 1 of IC103 is DC 5V does proper DC 2.5V appear at Pin 3 of IC103?
No
Check IC103 and related circuit.

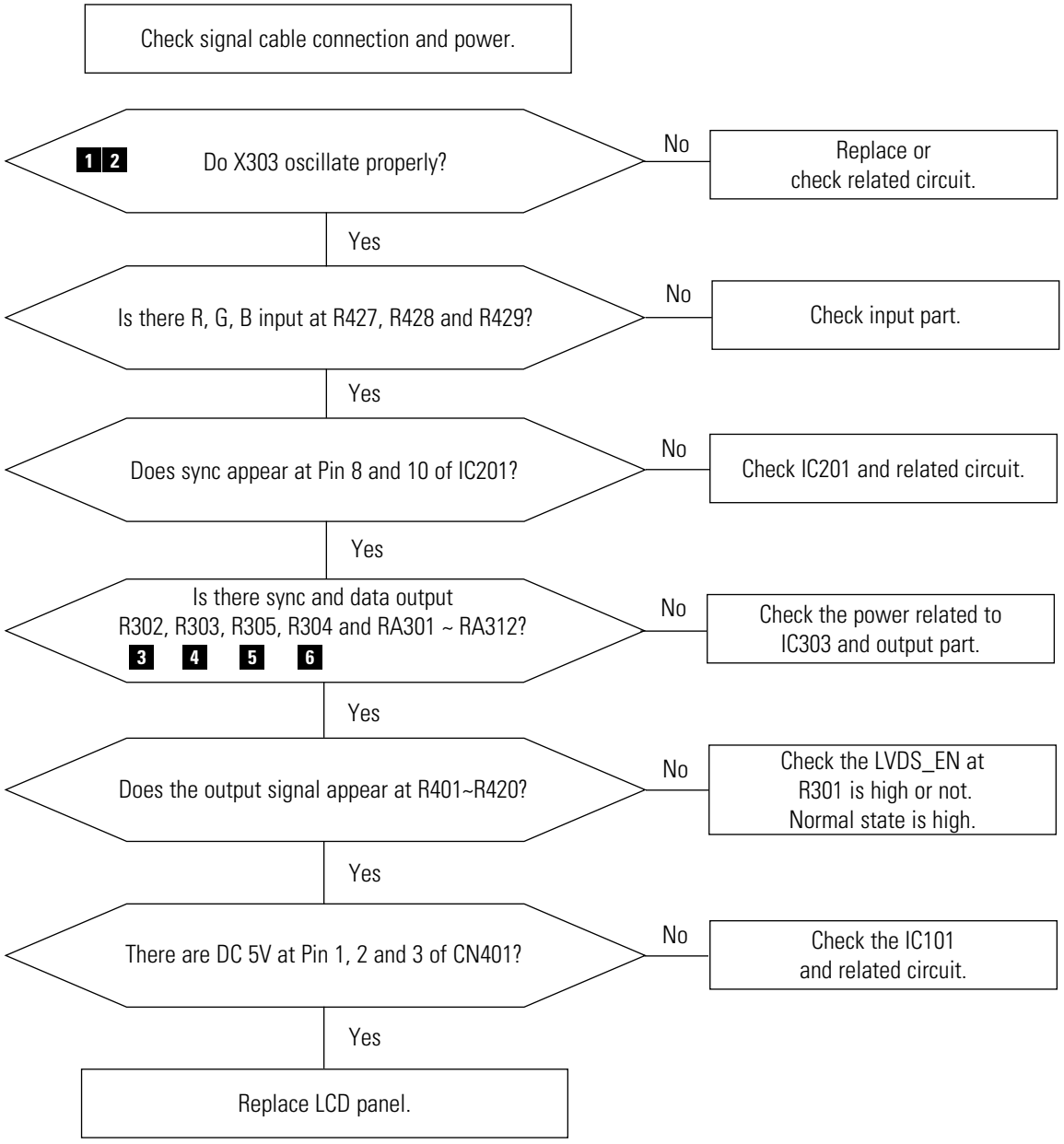
※ 0V means power on state.

5-2-2 No Power (GY17VS* - Main 1)

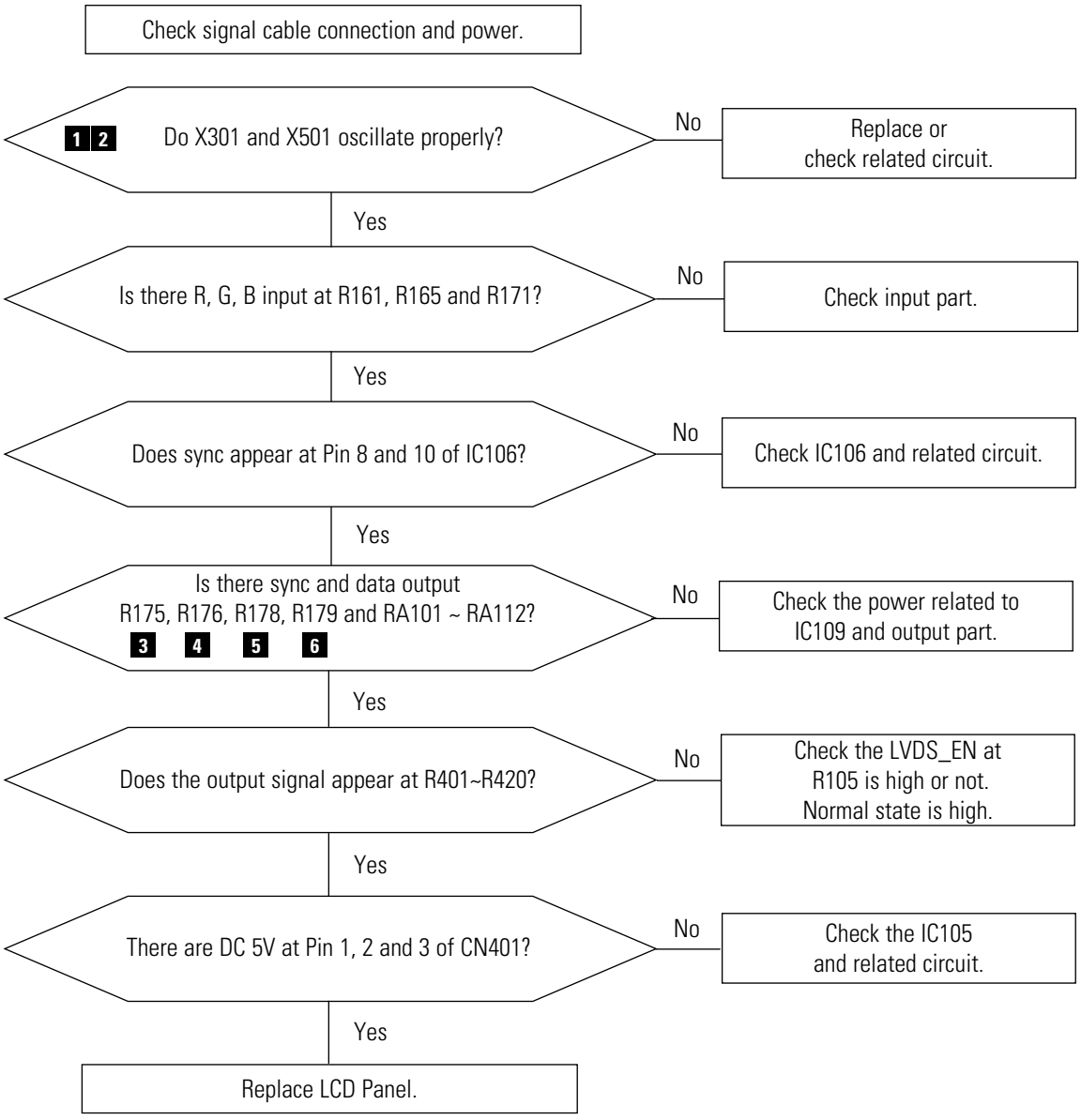

When Pin 4 of CN102 is 0V* does proper DC 13V, 5V appear at Pin 8, 9 and 3 of CN102 separately?
No
Change IP Board.
Yes
When Pin 2 of IC 105 is 0V does proper DC 5V appear at Pin 7 and 8 of IC105?
No
Check IC105, IC113 and related circuit.
Yes
When Pin 4 of IC 105 is 5V does proper DC 5V appear at Pin 5 and 6 of IC105?
No
Check IC105 and related circuit.
Yes
Does proper DC 3.3 V appear at Pin 3 of IC101?
No
Check IC101 and related circuit.

* 0V means power on state.

5-3-1 No Video (GY17CS*, GY17VS* - Main 2)


Check signal cable connection and power.
1 2
Do X303 oscillate properly?
No
Replace or check related circuit.
Yes
Is there R, G, B input at R427, R428 and R429?
No
Check input part.
Yes
Does sync appear at Pin 8 and 10 of IC201?
No
Check IC201 and related circuit.
Yes
Is there sync and data output R302, R303, R305, R304 and RA301 ~ RA312?
3 4 5 6
No
Check the power related to IC303 and output part.
Yes
Does the output signal appear at R401~R420?
No
Check the LVDS_EN at R301 is high or not. Normal state is high.
Yes
There are DC 5V at Pin 1, 2 and 3 of CN401?
No
Check the IC101 and related circuit.
Yes
Replace LCD panel.

5-3-2 No Video (GY17VS* - Main 1)


Check signal cable connection and power.
1 2
Do X301 and X501 oscillate properly?
No
Replace or check related circuit.
Yes
Is there R, G, B input at R161, R165 and R171?
No
Check input part.
Yes
Does sync appear at Pin 8 and 10 of IC106?
No
Check IC106 and related circuit.
Yes
Is there sync and data output R175, R176, R178, R179 and RA101 ~ RA112?
3 4 5 6
No
Check the power related to IC109 and output part.
Yes
Does the output signal appear at R401~R420?
No
Check the LVDS_EN at R105 is high or not. Normal state is high.
Yes
There are DC 5V at Pin 1, 2 and 3 of CN401?
No
Check the IC105 and related circuit.
Yes
Replace LCD Panel.

WAVEFORMS

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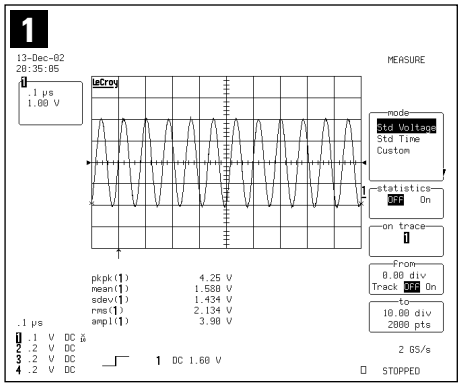

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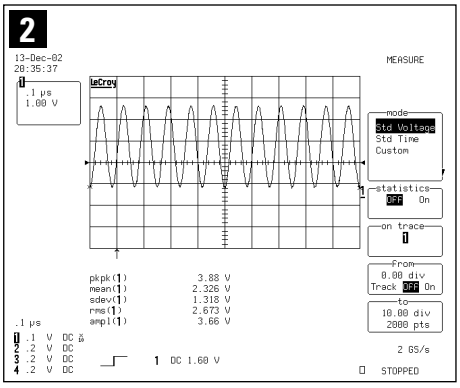

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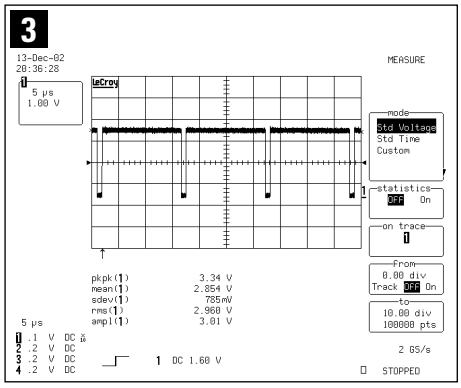

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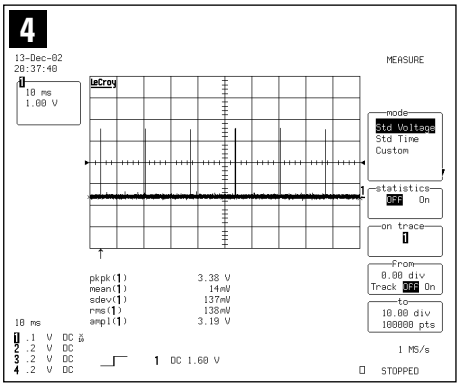

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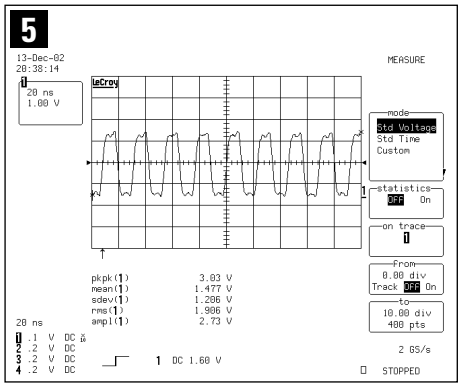
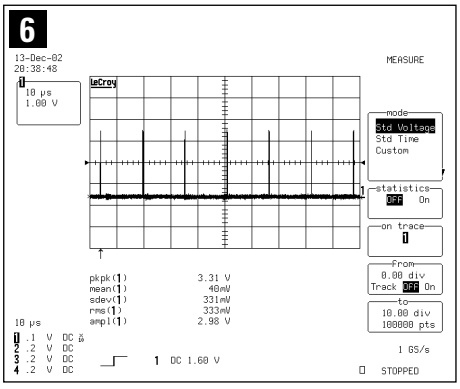
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